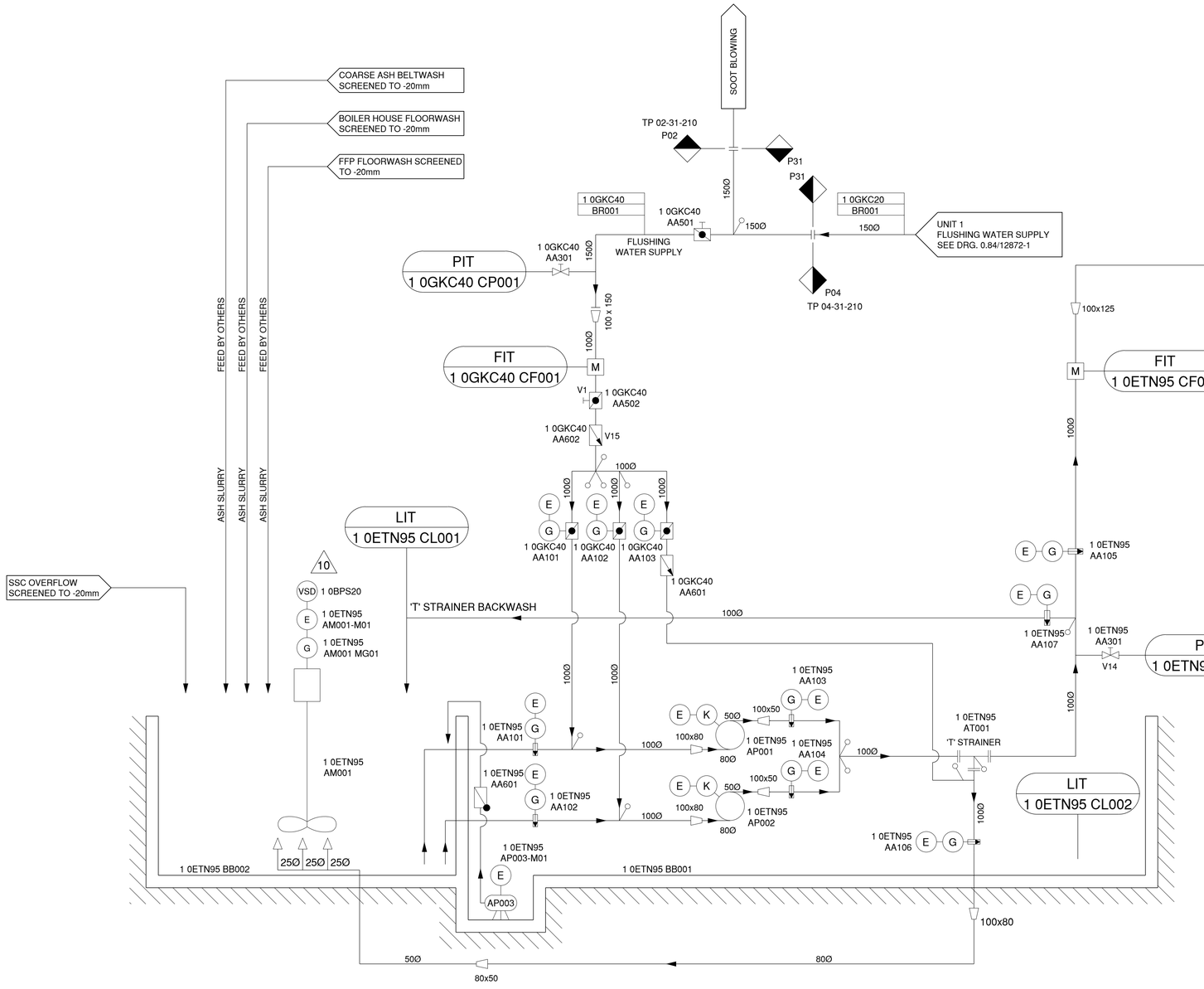

BOILER HOUSE SUMP
UNIT 1

LEGEND

E	ACTUATED KNIFE GATE VALVE
	NON RETURN VALVE
E	ACTUATED BUTTERFLY VALVE
	MANUALLY OPERATED VALVE
	BUTTERFLY VALVE
	CONCENTRIC REDUCER
M	MAGFLOW METER
	'T' STRAINER
	CENTRIFUGAL PUMP
E	SUMP PUMP WITH INTERNAL FLOAT

REFERENCE DRAWINGS:

BOILER HOUSE No.1 PIPING DETAILS
SEE DRAWING No. 0.84/28168 (SHT 1 TO SHT 5)

READ IN CONJUNCTION WITH THE OPERATING PHILOSOPHY DOCUMENT No. 200-46525

PIPE ROUTE FROM SUMP TO T.A.C GANTRY
SEE DRAWING No. 0.84/7019 (SHT 1)

PIPEWORK ON T.A.C GANTRY SEE
DRAWING No.0.84/7019 (SHT 2)

PIPEWORK ON PRIMARY TREATMENT PLANT
GANTRY SEE DRAWING No.0.84/7019 (SHT 3)

FLUSH WATER PIPING SEE
DRAWING No's. 0.84/34659 (SHT 1 TO SHT 3)

PIT	PRESSURE INDICATING TRANSDUCER.
LS	LEVEL SWITCH - DOES NOT MONITOR PRESSURE VARIATION, BUT CAUSES SWITCHING AT A PRESET VALUE. COULD BE ANALOGUE OR BINARY.
LIT	LEVEL INDICATING TRANSDUCER.
FIT	FLOW INDICATING TRANSDUCER.

THE KKS CODES TABULATED BELOW REFER TO SECONDARY ITEM SUCH AS COUPLINGS, GEARBOXES, ETC., WHICH CANNOT BE SHOWN ON THE P&ID DUE TO LACK OF SPACE. THEY ARE LOCATED WITH THE ASSOCIATED PRIMARY ITEMS WHICH ARE IDENTIFIED BY THEIR KKS CODES

1 0ETN95 AA101 MG01	UNIT 1 DEGRIT SUMP SLURRY PUMP 1 SUCTION ISOLATING VALVE GEARBOX
1 0ETN95 AA101-M01	UNIT 1 DEGRIT SUMP SLURRY PUMP 1 SUCTION ISOLATING VALVE MOTOR
1 0ETN95 AA102 MG01	UNIT 1 DEGRIT SUMP SLURRY PUMP 2 SUCTION ISOLATING VALVE GEARBOX
1 0ETN95 AA102-M01	UNIT 1 DEGRIT SUMP SLURRY PUMP 2 SUCTION ISOLATING VALVE MOTOR
1 0ETN95 AA103 MG01	UNIT 1 DEGRIT SUMP SLURRY PUMP 1 DISCHARGE ISOLATING VALVE GEARBOX
1 0ETN95 AA103-M01	UNIT 1 DEGRIT SUMP SLURRY PUMP 1 DISCHARGE ISOLATING VALVE MOTOR
1 0ETN95 AA104 MG01	UNIT 1 DEGRIT SUMP SLURRY PUMP 2 DISCHARGE ISOLATING VALVE GEARBOX
1 0ETN95 AA104-M01	UNIT 1 DEGRIT SUMP SLURRY PUMP 2 DISCHARGE ISOLATING VALVE MOTOR
1 0ETN95 AA105 MG01	UNIT 1 DEGRIT SUMP SLURRY FINAL DELIVERY VALVE GEARBOX
1 0ETN95 AA105-M01	UNIT 1 DEGRIT SUMP SLURRY FINAL DELIVERY VALVE MOTOR
1 0ETN95 AA106 MG01	UNIT 1 DEGRIT SUMP SUPPLY TO AGITATOR ISOLATING VALVE GEARBOX
1 0ETN95 AA106-M01	UNIT 1 DEGRIT SUMP SUPPLY TO AGITATOR ISOLATING MOTOR
1 0ETN95 AA107 MG01	UNIT 1 DEGRIT SUMP STRAINER BACKWASH ISOLATING GEARBOX
1 0ETN95 AA107-M01	UNIT 1 DEGRIT SUMP STRAINER BACKWASH ISOLATING MOTOR
1 0ETN95 AP001 MK01	UNIT 1 DEGRIT SUMP SLURRY DISTRIBUTION PUMP 1 VEE BELT DRIVE
1 0ETN95 AP001-M01	UNIT 1 DEGRIT SUMP SLURRY DISTRIBUTION PUMP 1 MOTOR
1 0ETN95 AP002 MK01	UNIT 1 DEGRIT SUMP SLURRY DISTRIBUTION PUMP 2 VEE BELT DRIVE
1 0ETN95 AP002-M01	UNIT 1 DEGRIT SUMP SLURRY DISTRIBUTION PUMP 2 MOTOR
1 0GKC40 AA101 MG01	UNIT 1 DEGRIT SUMP FLUSH WATER SUPPLY TO PUMP 1 ISOLATING VALVE GEARBOX
1 0GKC40 AA101-M01	UNIT 1 DEGRIT SUMP FLUSH WATER SUPPLY TO PUMP 1 ISOLATING VALVE MOTOR
1 0GKC40 AA102 MG01	UNIT 1 DEGRIT SUMP FLUSH WATER SUPPLY TO PUMP 2 ISOLATING VALVE GEARBOX
1 0GKC40 AA102-M01	UNIT 1 DEGRIT SUMP FLUSH WATER SUPPLY TO PUMP 2 ISOLATING VALVE MOTOR
1 0GKC40 AA103 MG01	UNIT 1 DEGRIT SUMP FLUSH WATER SUPPLY TO STRAINER ISOLATING VALVE
1 0GKC40 AA103-M01	UNIT 1 DEGRIT SUMP FLUSH WATER SUPPLY TO STRAINER ISOLATING VALVE GEARBOX

KKS CODE - 1 0ETN

D.O.	REV	DATE	INDEX REFERENCE	REV BY	CHKD BY	AUTH BY	KKS APP	REFERENCE DRAWINGS
	11	31 05 12	TP FOR SOOTBLOWER ADDED	aCF	LVERSFELD	PATTEN		
	10	12 04 12	KKS CODE FOR VSD CHANGED	aCF	LVERSFELD	PATTEN		
	9	21 03 12	SECONDARY KKS CODES ADDED (TABLE)	aCF	LVERSFELD	PATTEN		
	8	16 03 12	RE-ISSUED (REVISION TRIANGLES ADDED)	aCF	LVERSFELD	PATTEN		
	7	06 03 12	KKS CODES UPDATED	D. PATTEN	LVERSFELD	PATTEN		
	6	13 02 12	KKS CODES UPDATED	D. PATTEN	LVERSFELD	PATTEN		
	5	09 02 12	VALVES ADDED & KKS CODES ADDED	D. PATTEN	LVERSFELD	PATTEN		
	4	04 01 12	KKS CODES AND NOTES UPDATED	D. PATTEN	LVERSFELD	PATTEN		
	3	05 08 12	INSTRUMENTATION POSITIONS UPDATED AND TABLE ADDED	D. PATTEN	LVERSFELD	PATTEN	LA	
	2	21 10 11	KKS CODES AND NOTES UPDATED	BM	JP	AGS	LA	
	1	04 08 11	KKS CODE ADDED & SYMBOLS REVISED	BM	JP	AGS	LA	
	0	24 06 11	ISSUED FOR CONSTRUCTION	BM	JP	CB		
–	A	10 05 11	ISSUED FOR APPROVAL	BM	JP			

** REVISION **

DRG REGISTR	–	–	–	–
DESIGN APPROVED	10 05 11	A.P		
KKS APP	–	–		
DO AUTH	10 05 11	AGS		
CHKD BY	10 05 11	JP		
DRAWN BY	10 05 11	BM		

AUTHORISED FOR ESKOM BY: – DATE: – –

MEDUPI POWER STATION
ASH WASHDOWN - COLLECTION AND TREATMENT
BOILER HOUSE SUMPS
UNIT 1 - P & ID

J26182/A/ASH/02/01/05

0.84/26142

SCALE N.T.S

SHEET 1 of 1 REV 11

SIZE GROOTTE A1